

Table S1. The comparison of alpha diversity in terms of ACE, Chao1, and Shannon index four study sites. \*: significant at 0.05 level; ns: not significant.

	Pairwise	Mean			Lower	Upper
	comparison	difference	<i>p</i> value	Significance	condifence limit	confidence limit
ACE	Dow16_Sed16	-13.667	0.016	*	-24.468	-2.865
	Dow16_Hil16	-9.667	0.077	ns	-20.468	1.135
	Dow16_Up16	-3.667	0.486	ns	-14.468	7.135
	Hil16_Sed16	-4.000	0.448	ns	-14.801	6.801
	Hil16_Up16	6.000	0.259	ns	-4.801	16.801
	Sed16_Up16	10.000	0.068	ns	-0.801	20.801
Chao1	Dow16_Sed16	-15.667	0.005	**	-26.128	-5.205
	Dow16_Hil16	-10.000	0.060	ns	-20.461	0.461
	Dow16_Up16	-4.667	0.362	ns	-15.128	5.795
	Hil16_Sed16	-5.667	0.271	ns	-16.128	4.795
	Hil16_Up16	5.333	0.299	ns	-5.128	15.795
	Sed16_Up16	11.000	0.040	*	0.539	21.461
Shannon	Dow16_Sed16	4.000	0.414	ns	-6.032	14.032
	Dow16_Hil16	-10.000	0.051	ns	-20.032	0.032
	Dow16_Up16	-0.667	0.891	ns	-10.699	9.365
	Hil16_Sed16	14.000	0.009	**	3.968	24.032
	Hil16_Up16	9.333	0.066	ns	-0.699	19.365
	Sed16_Up16	-4.667	0.342	ns	-14.699	5.365



Fig.S1

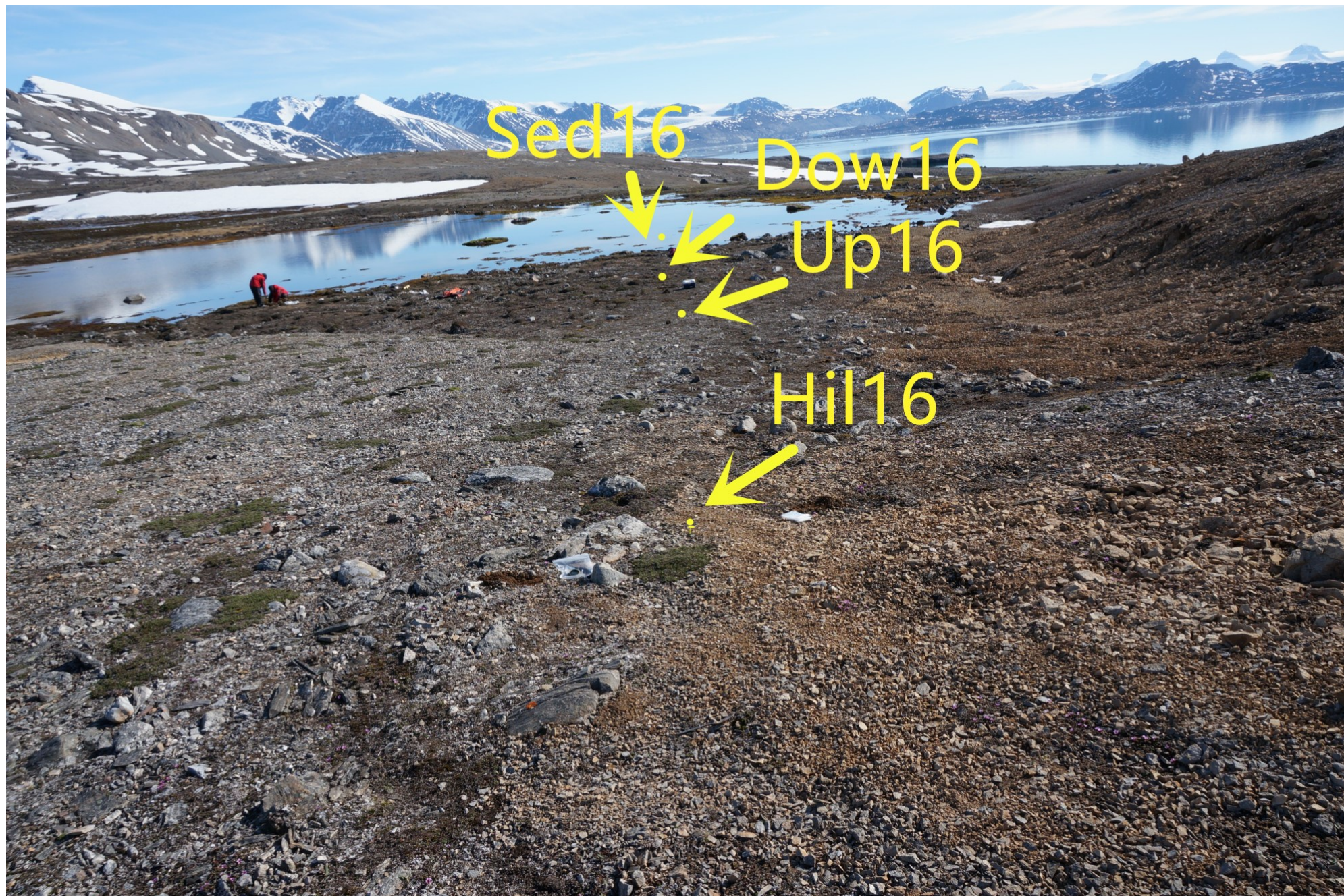




Fig.S2

Total Tags(avg:57734)    Unclassified Tags(avg:0)    OTUs(avg:2609)  
Taxon Tags(avg:46167)    Unique Tags(avg:11566)

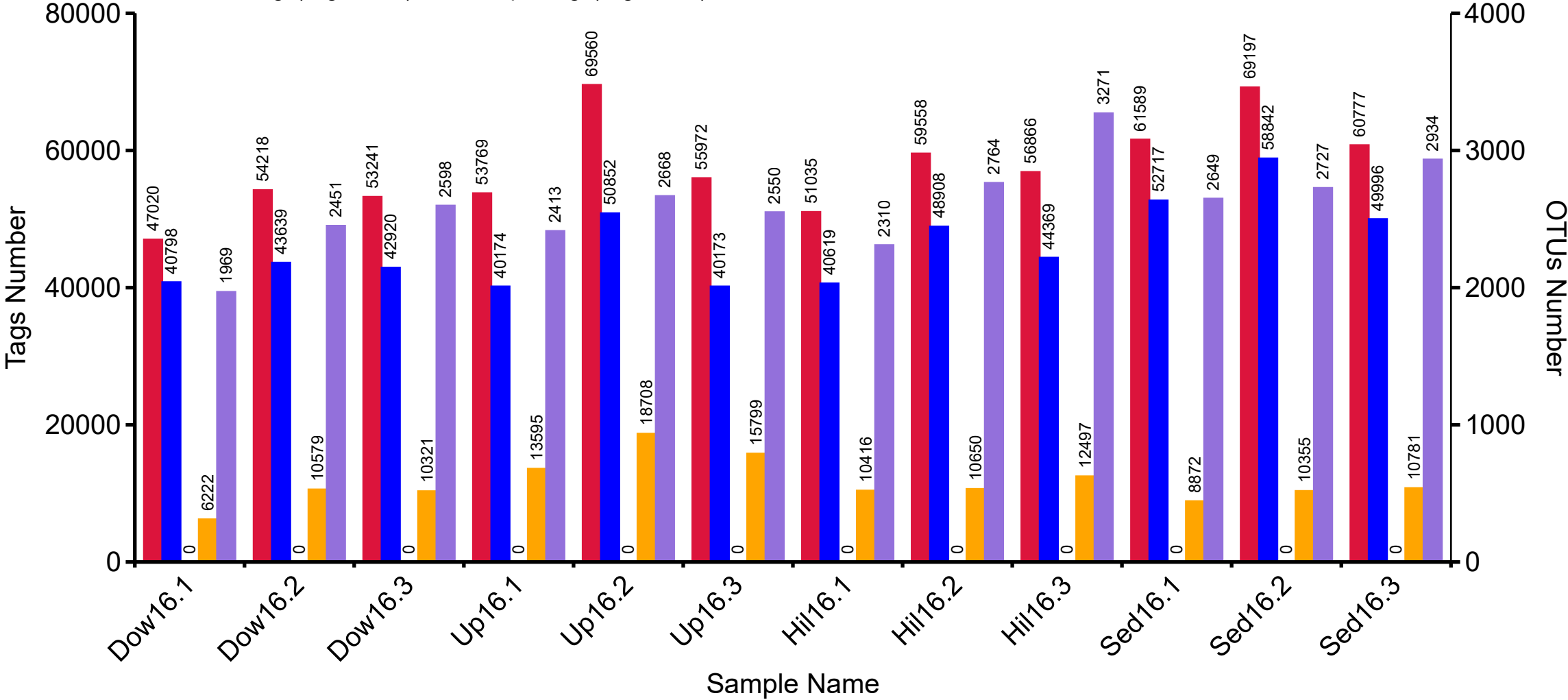
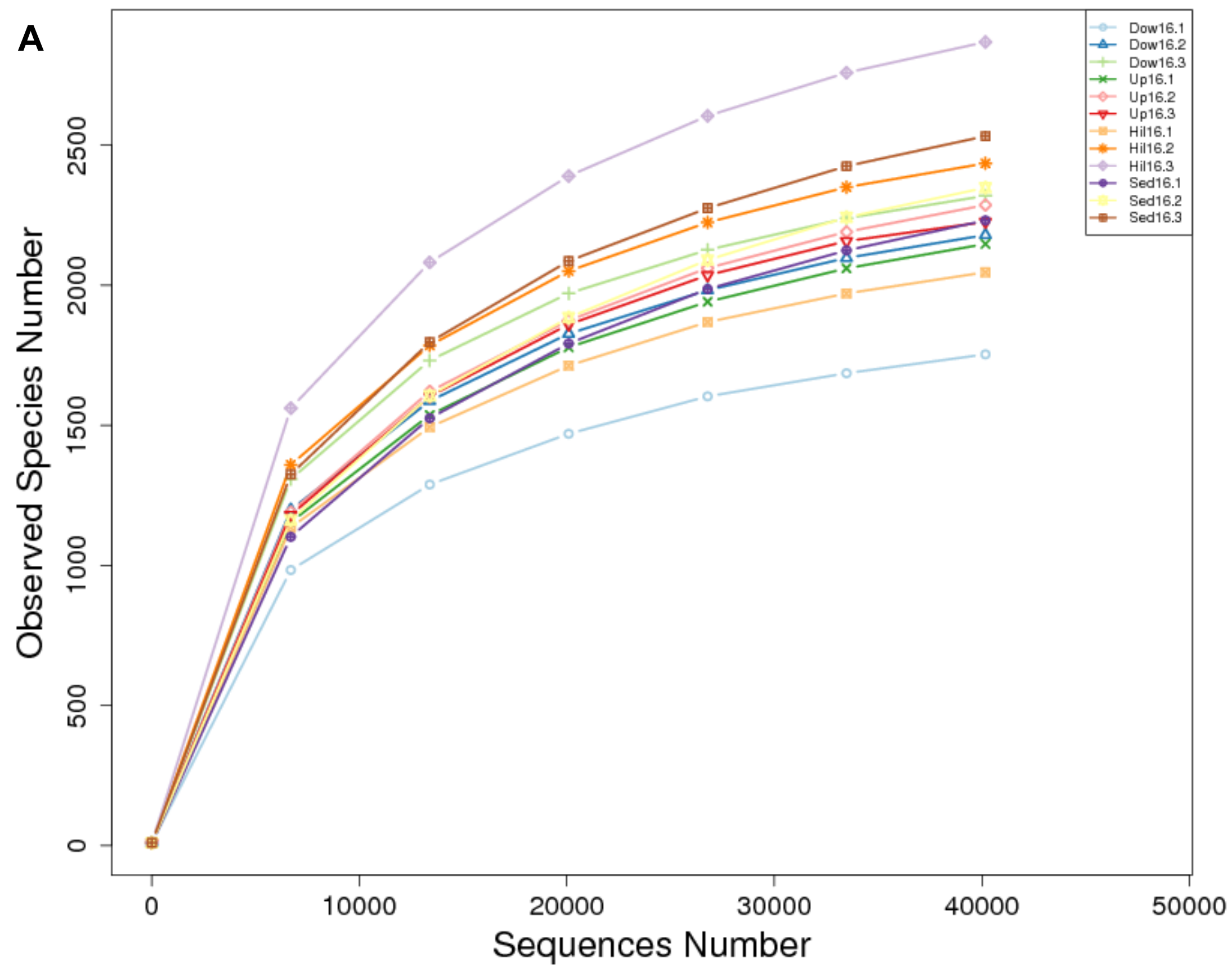


Fig.S3

**A**



# B

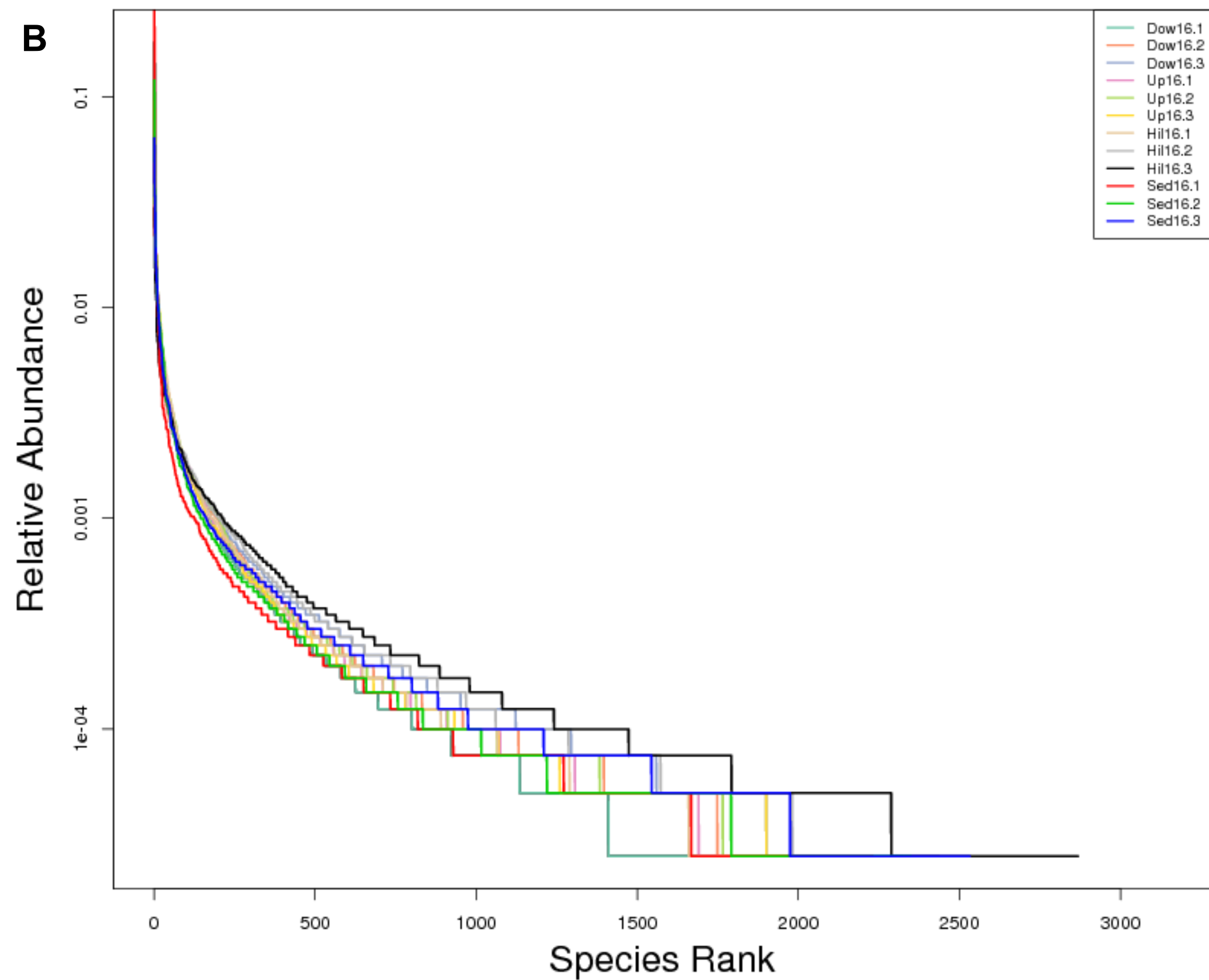


Fig.S4

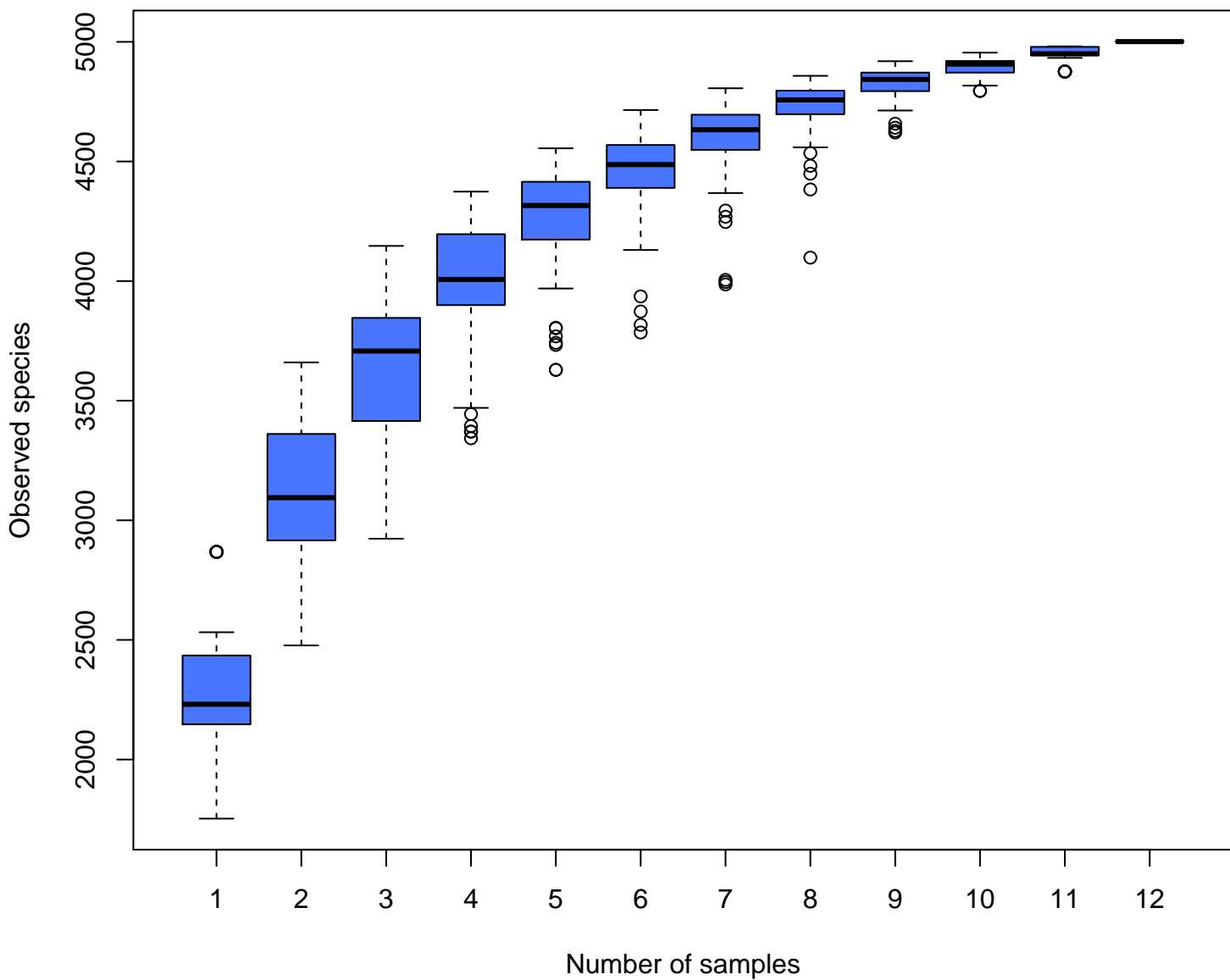


Fig.S5

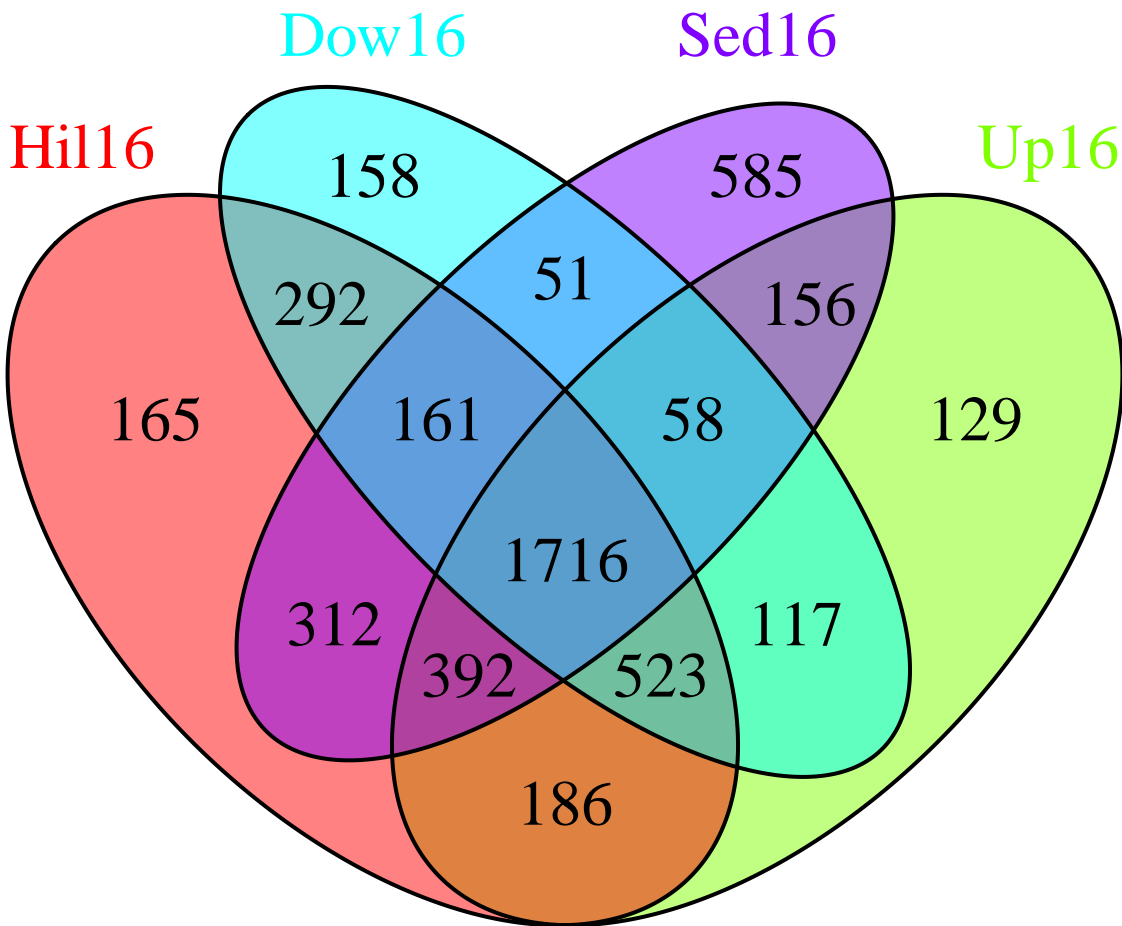


Fig.S6

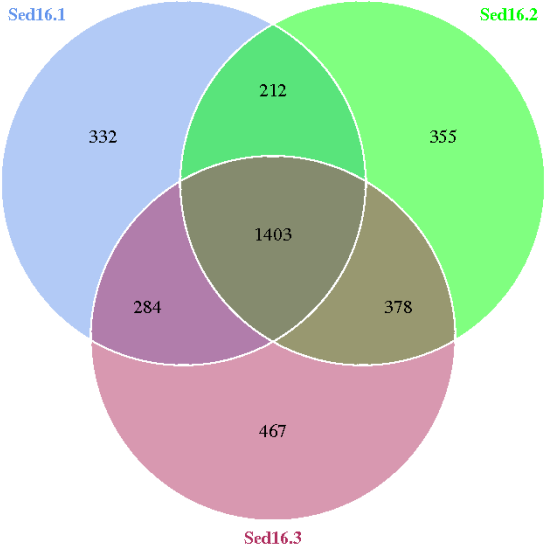
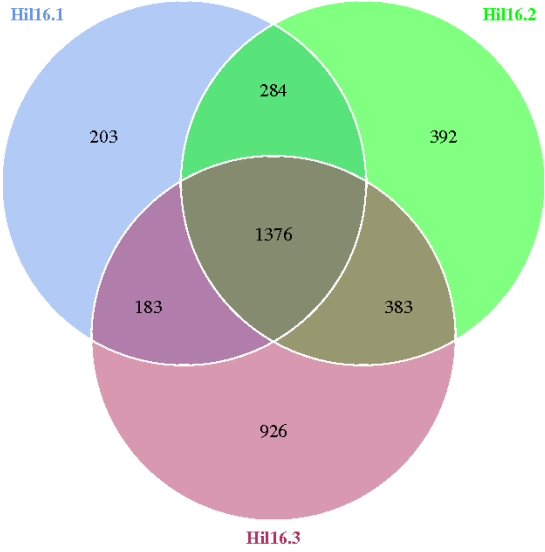
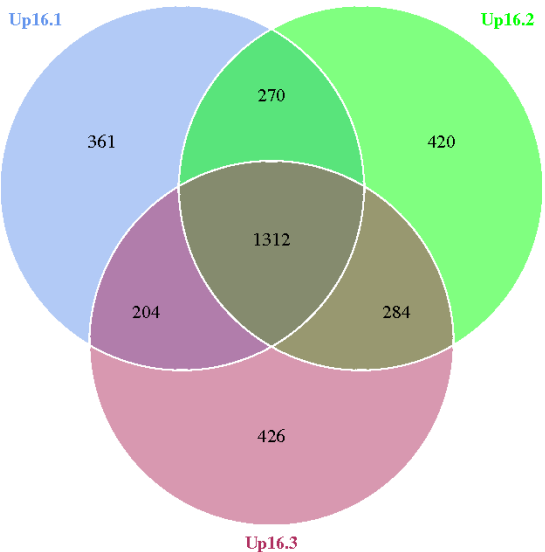
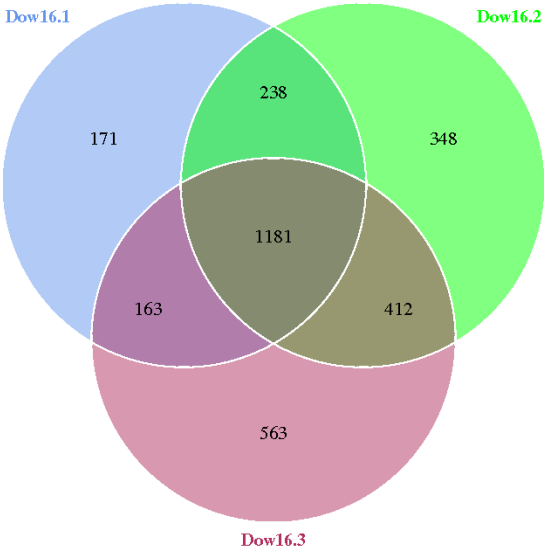


Fig.S7





Fig.S8

OTU Tree of Hil16 by GraPhlAn



Fig.S9

- A:c--unidentified Acidobacteria
- B:c--Betaproteobacteria
- C:o--Burkholderiales
- D:f--Comamonadaceae
- E:f--Alcaligenaceae
- F:o--Methylophilales
- G:f--Methylophilaceae
- H:g--Methylotenera
- I:c--Gammaproteobacteria
- J:o--Xanthomonadales
- K:c--Alphaproteobacteria
- L:o--Sphingomonadales
- M:f--Sphingomonadaceae
- N:g--Sphingomonas
- O:o--Rhizobiales
- P:f--Hyphomicrobiaceae
- Q:g--Rhodomicrobium
- R:f--MNG7
- S:f--unidentified Rhizobiales
- T:g--Nordella
- U:f--Xanthobacteraceae
- V:c--Deltaproteobacteria
- W:c--Thermoleophilia
- X:o--Solirubrobacterales
- Y:c--unidentified Actinobacteria
- Z:o--Micromonosporales
- a:f--Micromonosporaceae
- b:o--Kineosporiales
- c:f--Kineosporiaceae
- d:g--Kineosporia
- e:o--Micrococcales
- f:f--Intrasporangiaceae
- g:g--Oryzihumus
- h:c--Clostridia
- i:o--Clostridiales

OTU Tree of Up16 by GraPhlAn

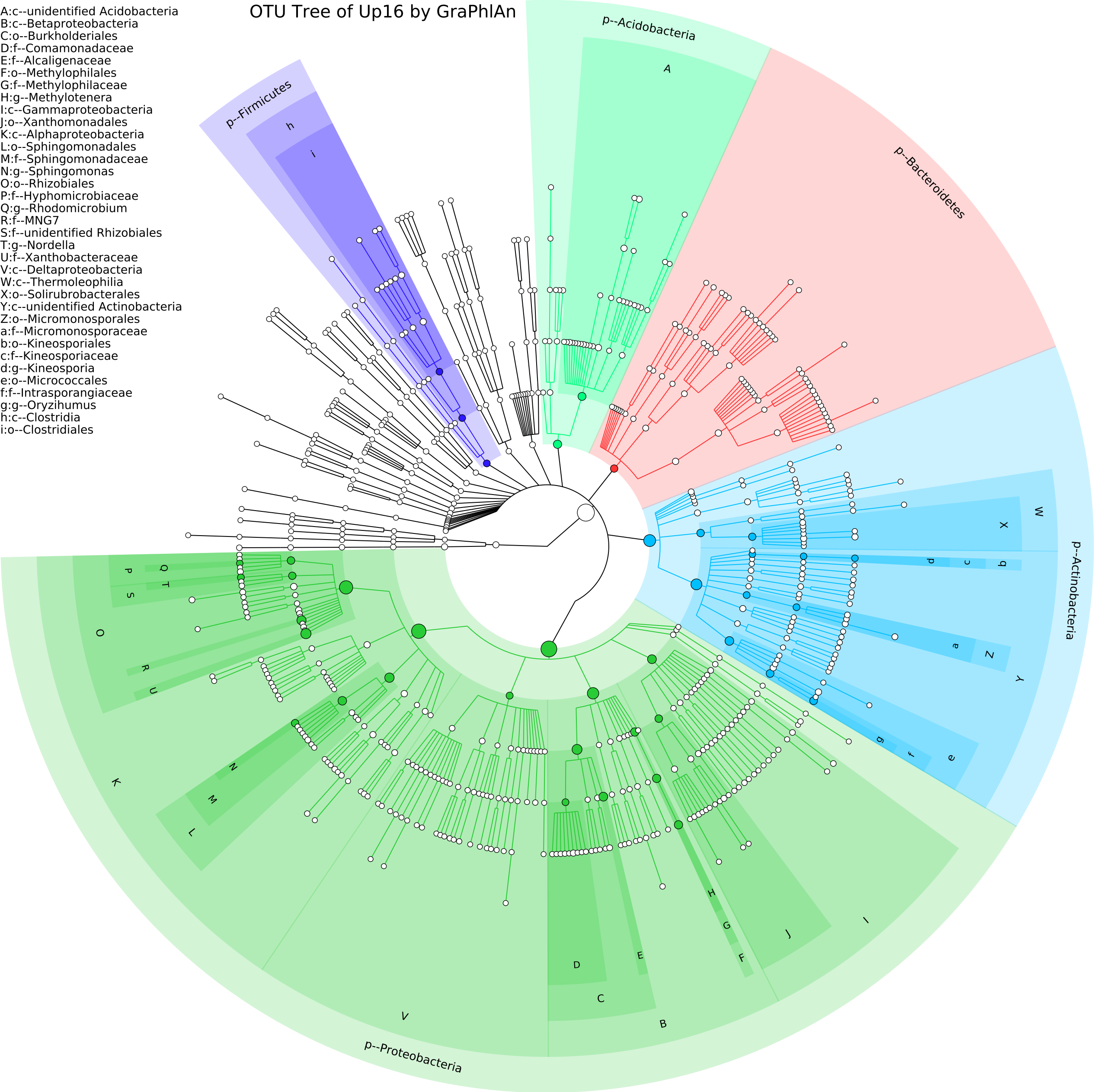




Fig.S10

- A:c--unidentified Acidobacteria
- B:f--unidentified Acidobacteria
- C:f--unidentified Acidobacteria
- D:o--Subgroup 6
- E:f--unidentified Acidobacteria
- F:g--unidentified Acidobacteria
- G:c--Cytophagia
- H:o--Cytophagales
- I:c--Sphingobacteriia
- J:o--Sphingobacteriales
- K:c--Betaproteobacteria
- L:o--Burkholderiales
- M:f--Comamonadaceae
- N:f--Alcaligenaceae
- O:o--Methylophilales
- P:f--Methylophilaceae
- Q:g--Methylotenera
- R:c--Gammaproteobacteria
- S:o--Xanthomonadales
- T:f--Xanthomonadaceae
- U:c--Alphaproteobacteria
- V:o--Sphingomonadales
- W:f--Sphingomonadaceae
- X:g--Sphingomonas
- Y:o--Rhizobiales
- Z:f--Hyphomicrobiaceae
- a:f--MNG7
- b:f--Xanthobacteraceae
- c:o--Caulobacteriales
- d:c--Deltaproteobacteria
- e:c--unidentified Actinobacteria
- f:o--Micrococcales
- g:f--Micrococcaceae
- h:g--Arthrobacter
- i:f--Intrasporangiaceae
- j:g--Oryzihumus

OTU Tree of Dow16 by GraPhlAn

